FEBRUARY
MONTHLY PROJECT STATUS REPORT
FOR
FORMER HEXCEL INDUSTRIAL CHEMICALS FACILITY

Lodi Borough, Bergen County
Lodi, New Jersey

ECRA Case #86009

Submitted to:

New Jersey Department of Environmental Protection
401 East State Street, 5th Floor
Trenton, New Jersey 08625

Prepared by:

Heritage Remediation/Engineering, Inc.
5656 Opportunity Drive
Toledo, Ohio 43612

March 15, 1991

91RB1033.T1

HERITAGE REMEDIATION/ENGINEERING, INC.

5656 Opportunity Drive
Toledo, OH 43612
Phone: 419/478-4396
FAX: 419/478-4560

March 15, 1991

Mr. Gary Sanderson
Case Manager
Bureau of ECRA
NEW JERSEY DEPARTMENT of ENVIRONMENTAL PROTECTION
401 E. State St.
5th Floor
Trenton, N.J. 08625

RE: February Monthly Project Status Report
Former HEXCEL CORP. Site
205 Main Street, Lodi Borough
Bergen County, NJ
ECRA Case No. 86009
HR/E Project No. 60027

Dear Mr. Sanderson:

On behalf of HEXCEL CORPORATION, Heritage Remediation/Engineering, Inc. (HR/E) has prepared this report of Phase I remedial activities performed at the above reference site. This report is in partial fulfillment of paragraph 36 of the conditional approval letter requiring the submittal of a monthly status report and describes activities performed over the period from February 1, 1991 to March 1, 1991.

Ground-Water Recovery System

As reported in our January Update Report, six of the seven well pumps have been tested and demonstrated to deliver between 0.5 and 1 gpm. One of the seven pumps, located in CW-11 has an obstruction in the air supply line. No repairs have been done to date and no effort has been taken to optimize the pumping system. We are

waiting until a permit for continuous discharge has been issued by the Passaic Valley Sewerage Commission (PVSC) so that optimization can occur at the beginning of long-term pumping.

Ground-Water Treatment System

The Treatment Work Approval permit was issued on February 28, 1991 (see attached Appendix A). The air stripping towers have been installed, plumbed and tested for leaks. Testing for VOC removal will not be performed until the entire system is operable.

During the incinerator check-out, it was determined that there was a problem due insufficient natural gas pressure in the Fine Organics service. Higher than normal service was obtained from the New Jersey Public Service Electric and Gas Company. A subcontractor installed a new gas line beginning on February 19th. The gas line met with the approval of the Borough of Lodi plumbing inspector. On February 27, 1991, we met with the Borough of Lodi Fire Official, Richard Blanchfield, regarding the treatment system. The system was explained and other planned site activities were discussed.

We have been in contact with the New Source Review people at NJDEP. They say they will work with us to allow operation of the equipment, but they have not committed to relieving us of the continuous hydrocarbon monitoring nor have they approved of temporary monitoring on a non-continuous basis until the appropriate equipment can be obtained, installed, and tested. Since our water flow rate is limited to 4.33 gpm, they will require the continuous monitoring of water flow to demonstrate that we have not exceeded that amount.

Treatment of the basement water has been reduced to one day every two weeks. Approximately 200 gallons of a mixture of water, LNAPL and DNAPL is seeping into the basement each day.

On February 28, 1991 a meeting was held with Frank D'Ascencio of the PVSC. The PVSC indicated that Hexcel would not be granted a permit to discharge ground water under the prior agreement. A letter of response is being prepared. The PVSC indicated that discharge would probably be allowed for a two week period of testing.

DNAPL Recovery System

R.E. Wright came to the site February 12, 1991 for adjustments to the DNAPL recovery system. The discharge line from RW7-1 was frozen due to water, so the recovery pump was not pumping. RW7-5 recovery pump was operable and discharged into a 55 gallon drum equipped with a high level shut-off switch. The twentieth drum of DNAPL (totaling approximately 1,100 gal.) have been collected as of this report. Rollins has postponed in February a pick-up of the recovered DNAPL for disposal at their New Jersey facility.

LNAPL Recovery System

R.E. Wright adjusted the LNAPL recovery system while on site. The system is operable, withdrawing ground water from RW15-2 and from RW (underground storage tank cavity). Discharge lines have been winterized from the RW well to the boiler room. This system has not operated continuously pending complete installation of the treatment system.

Additional Well Installations

Two additional DNAPL recovery wells (RW7-9 and RW7-10) were installed on February 12, 1991 to further characterize the extent of the plume. No DNAPLs were encountered during drilling or well development. Also, three new monitoring wells (MW-29, MW-30, and MW-31) were installed near the Molnar Road MW-23 monitoring well. One well to the east (MW-30) showed free oil during drilling however, none was encountered during well development. The other wells showed no LNAPLs. Boring Logs and Well Completion Diagrams are found in Appendix B.

The monitoring wells consist of 4-inch diameter flush-joint PVC casing with five feet of PVC 0.010-inch slotted screen placed to intersect the water table, and the DNAPL recovery wells consist of 4-inch diameter flush-joint galvanized casing with five feet of stainless steel 0.010-inch wire wrapped screen. The DNAPL recovery wells were installed at least two feet into the top of the silty clay unit. A sand filter pack surround the screen with a bentonite seal on top of the sand, while the remainder of the annulus was backfilled with a cement/bentonite slurry. All of the wells were finished at the surface with a flush 12-inch diameter manhole cover.

Pre-Pumping Water Level Measurements

Prior to the start-up of pumping the ground-water control wells, water level measurements were made of strategically located site wells as a data base control. During the start-up and testing of the treatment system, subsequent water levels can be compared to pre-pumping levels. Depth to water measurements were made by utilizing an electronic water level indicator.

The attached plate represents a water table contour map constructed from data collected on February 14, 1991. This map exhibits a ground-water flow direction to the west, towards Saddle River, and with a ground-water mound under Building II.

A hydrograph is enclosed which represents water table fluctuations measured in MW-10 and MW-11. We are currently in the process of obtaining stream gage elevations of the Saddle River and local precipitation measurements from the USGS for inclusion with this hydrograph. The March Update Report should include this information.

Elevation Survey

An elevation survey of the newly installed wells was made in February by the Albert N. Faraldi Group of Secausus, New Jersey, a state licensed land surveyor. In addition to the elevation survey, coordinates of the wells were established. Survey data is

attached in Appendix C. The following table is a compilation of the well data which includes coordinates, ground elevations, top of casing (TOC) elevations, well depth, well construction materials, installation date, water elevations and clay elevations. A ground surface elevation map and top of clay elevation map were constructed based upon the survey data and are attached as plates.

Schedule Update

The attached schedule summarizes the projected timetable of tasks for the current year. This schedule will be updated periodically and incorporated into subsequent monthly update reports. Major tasks include DNAPL recovery system operation, ground-water control well pumping, LNAPL recovery system operation, treatment system, UST closure, sewer modifications, SVE pilot study and testing, chemical storage improvements, and periodic reports.

Should you have any questions or concerns regarding this report, please do not hesitate to call.

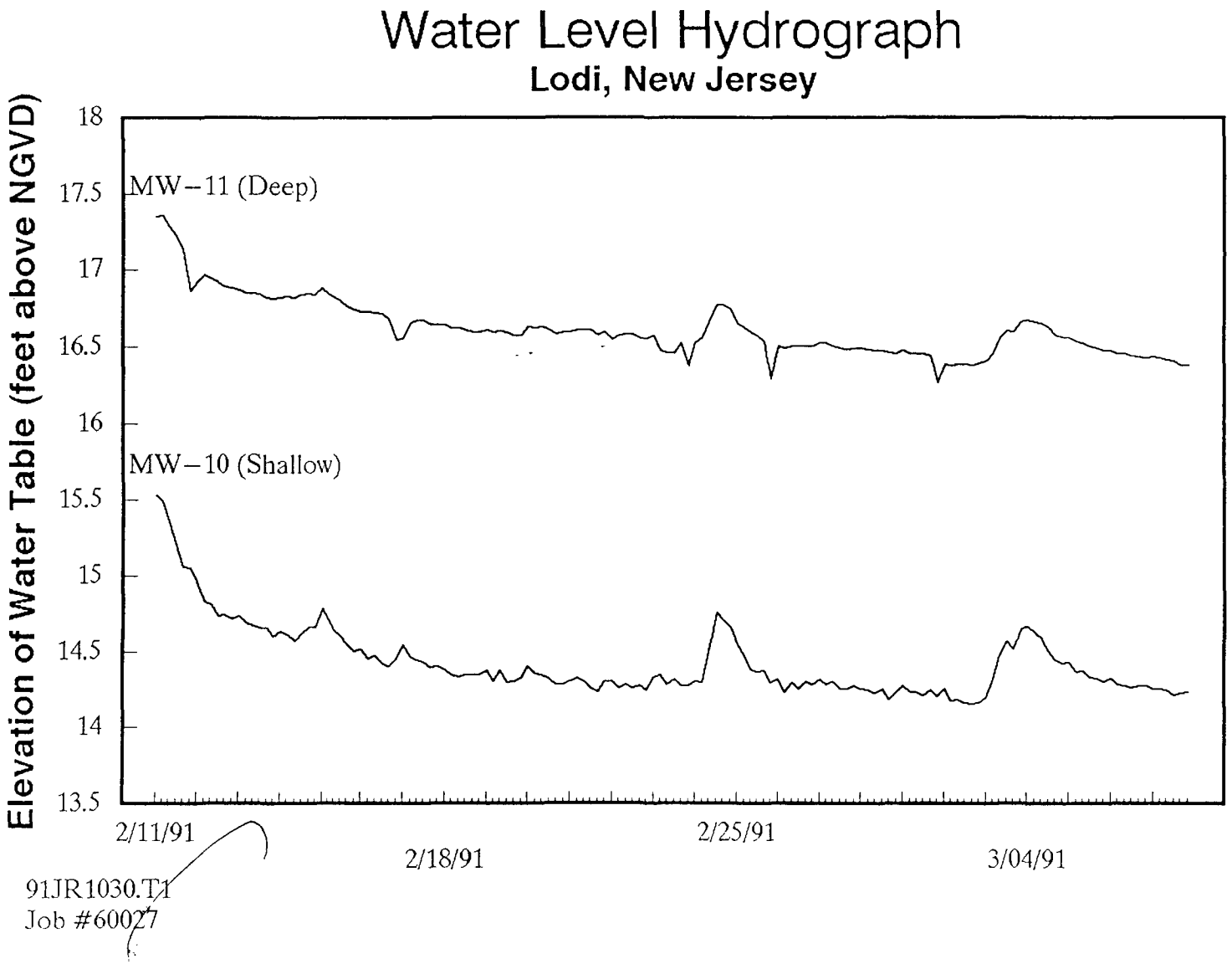
Respectfully,
Heritage Remediation/Engineering, Inc.

Robert R Beckwith

Robert R. Beckwith, CPG
Senior Hydrogeologist

Attachments

cc: A. William Nosil
John Schroeter
James Higdon
Jeff Macri
Jeff Stevens


Water Level Hydrograph
Lodi, New Jersey
Elevation of Water Table (feet above NGVD)
18
17.5
17
16.5
16
15.5
15
14.5
14
13.5
MW-11 (Deep)
MW-10 (Shallow)
2/11/91
2/18/91
2/25/91
3/04/91
91JR1030.T1
Job #60027

Hexcel Corp. – Fine Organics Corp. Site
Lodi, New Jersey
Well Data Master File
February 21, 1991

Date: February 27, 1991
Project No. 60027
Reviewed:_____ Date: _____
Water Levels Obtained 2/14/91

SHALLOW WELLS

Well Number	North(X) Coordinate (feet)	East(Y) Coordinate (feet)	Ground Elevation (ft NGVD)	Top of Casing Elevation (ft NGVD)	Well Depth (feet BGL)	Well Diameter (inches)	Casing/ Screen Material	Screen Length (feet)	Date Inst'd	Depth to Water (feet)	Water Elevation (ft NGVD)	Depth To Clay (feet)	Clay Elevation (ft NGVD)
MW-2	308.990	797.330	27.90	31.00	6.8	4	PVC	5.0	8/88	7.90	23.10	22.00	5.9
MW-4	393.840	893.880	29.02	32.28	6.50	4	PVC	5.0	8/88	8.00	24.28	--	
MW-6	458.490	765.050	27.14	30.70	15	4	PVC	5.0	8/88			--	
MW-8	500.210	698.780	26.92	30.26	13.9	4	PVC	5.0	8/88	11.10	19.16	14.00	12.9
MW-10	352.910	616.020	27.33	30.83	13.50	4	PVC	5.0	8/88	11.78	19.05	14.00	13.3
MW-12	563.430	809.020	27.62	31.01	13.60	4	PVC	5.0	8/88	10.20	20.81	--	
MW-14	705.110	819.500	27.12	30.70	11.90	4	PVC	5.0	8/88	10.96	19.74	--	
MW-16	350.260	740.950	26.71	29.69	9.60	4	PVC	5.0	8/88	6.30	23.39	10.00	16.7
MW-17	305.160	960.210	29.10	31.53	12.00	4	PVC	5.0	1/89	8.74	22.79	17.00	12.1
MW-18	291.620	877.430	29.04	32.23	8.00	4	PVC	5.0	8/88	9.12	23.11	8.00	21.0
MW-20	243.750	1037.750	28.50	27.95	19.90	4	PVC	5.0	11/90	4.81	23.14	--	
MW-21	521.630	937.850	28.80	30.67	13.00	4	PVC	5.0	9/90	8.50	22.17	--	
MW-22	248.510	918.790	28.73	28.36	8.50	4	PVC	5.0	12/90	5.82	22.54	9.00	19.7
MW-23	273.390	822.100	27.83	27.29	10.00	4	PVC	5.0	11/90	4.40	22.89	8.00	19.8
MW-24	287.890	744.780	26.83	26.12	10.00	4	PVC	5.0	11/90	3.00	23.12	8.00	18.9
MW-25	300.920	670.040	26.47	26.03	13.00	4	PVC	5.0	9/90	6.61	19.42	13.00	13.5
MW-27	414.910	867.940	29.10	31.43	10.00	4	PVC	5.0	9/90	7.20	24.23	9.00	20.1
MW-28	575.020	746.370	27.50	29.68	13.00	4	PVC	5.0	9/90	9.90	19.78	13.00	14.5
MW-29	277.430	802.120	27.50	27.06	10.00	4	PVC	5.0	2/91	4.18	22.88	10.00	17.5
MW-30	263.980	855.240	28.25	27.95	11.00	4	PVC	5.0	2/91	6.67	21.28	10.00	18.3
MW-31	239.610	833.130	28.33	27.95	11.00	4	PVC	5.0	2/91	5.11	22.84	10.00	18.3
CW-1	349.460	981.040	30.27	29.77	12.00	4	GALV/SS	5.0	9/90			12.00	18.3
CW-2	371.790	975.860	30.11	29.51	12.00	4	GALV/SS	5.0	9/90	7.60	21.91	12.00	18.1
CW-3	320.440	968.870			12.00	4	GALV/SS	5.0	9/90			11.00	
CW-4	313.950	967.480	29.10	29.00	11.50	4	GALV/SS	5.0	7/90			11.50	17.6
CW-5	282.210	942.680	28.89	28.67	11.50	4	GALV/SS	5.0	7/90			12.00	16.9
CW-6	288.510	913.860	29.25	28.93	9.00	4	GALV/SS	5.0	9/90	5.98	22.95	9.00	20.3
CW-7	327.610	692.700	26.70	26.13	14.00	4	GALV/SS	5.0	8/90			14.00	12.7
CW-8	342.220	678.010	26.70	26.77	14.00	4	GALV/SS	5.0	7/90	7.56	19.21	14.00	12.7
CW-9	361.850	680.830	26.60	26.37	14.00	4	GALV/SS	5.0	8/90			14.00	12.6
CW-10	381.74	681.64	26.50	25.91	14.00	4	GALV/SS	5.0	8/90	10.10	15.81	14	12.5
CW-11	402.65	684.24	26.80	25.74	14.00	4	GALV/SS	5.0	8/90			13	13.6
CW-12	422.98	685.77	26.51	25.71	14.00	4	GALV/SS	5.0	8/90	13.80	11.91	13	13.5
CW-13			26.60	26.05	14.00	4	GALV/SS	5.0	8/90			13	13.6
CW-14			26.70	26.37	14.00	4	GALV/SS	5.0	7/90	7.25	19.12	14	12.7
CW-15			26.90	26.31	14.00	4	GALV/SS	5.0	8/90			13	13.9
CW-16			27.00	26.45	14.00	4	GALV/SS	5.0	8/90	7.20	19.25	12	15.0
CW-17			27.10	26.25	14.00	4	GALV/SS	5.0	8/90			13	14.1
CW-18	527.63	727.93	27.20	26.61	14.00	4	GALV/SS	5.0	8/90			13	14.2
CW-19			27.20	26.5	14.00	4	GALV/SS	5.0	8/90			13	14.2
CW-20			27.30	26.74	14.00	4	GALV/SS	5.0	8/90			13	14.3
CW-21	579.55	797.87	27.40	26.77	14.00	4	GALV/SS	5.0	8/90			12	15.4
CW-22	598.01	769.07	27.30	26.35	14.00	4	GALV/SS	5.0	8/90	6.71	19.64	13	14.3
RW	304.05	839.97	28.67	28.38		4	STEEL	5.0					
RW6-1	452.87	791.44	29.28	28.84	14.00	4	GALV/SS	5.0	8/90	3.27	25.57		
RW6-2					16.00	4	GALV/SS	5.0	8/90	5.61			
RW6-3	395.96	838.76	29.02	28.64	8.60	4	GALV/SS	5.0	8/90			7	22.0
RW7-1	433.41	748.38	26.94	26.49	18.00	4	GALV/SS	5.0	8/90			18	10.9
RW7-2	452.38	750.61	27.07	26.48	17.50	4	GALV/SS	5.0	8/90			15.5	11.6
RW7-3	470.95	760.32	27.17	26.78	17.50	4	GALV/SS	5.0	8/90			15.5	11.7
RW7-4	498.1	774.65	27.80	27.11	19.00	4	GALV/SS	5.0	8/90	6.28	20.83	17	10.6
RW7-5	515.22	784.9	27.97	27.57	20.00	4	GALV/SS	5.0	9/90			18	10.0
RW7-6	495.02	737.53	27.10	26.48	15.00	4	GALV/SS	5.0	9/90			13	14.1
RW7-7	539.29	772.2	27.25	26.89	15.00	4	GALV/SS	5.0	9/90			14	13.3
RW7-8	414.66	743.86	26.71	25.9	15.00	4	GALV/SS	5.0	9/90	5.90	20.00	13	13.7
RW7-9	517.87	754.19	27.18	26.87	17.00	4	GALV/SS	5.0	2/91	7.53	19.34	15	12.2
RW7-10	430.7	706.21	26.50	26.08	15.00	4	GALV/SS	5.0	2/91	6.27	19.81	12	14.5
RW15-1			30.43	28.89	14.80	4	GALV/SS	5.0	8/90	7.38	21.51	14.8	15.6
RW15-2			30.37	30.13	14.00	4	GALV/SS	5.0	8/90			12	18.4

DEEP WELLS

MW-1D	303.030	963.260	29.03	32.42	20.20	4	PVC	5.0	7/88			11.50	17.5
MW-3D	311.440	792.270	27.84	31.13	27.5	4	PVC	5.0	8/88			7.00	20.8
MW-5D	396.610	894.450	29.03	32.50	24.9	4	PVC	5.0	8/88			7.00	22.0
MW-7D	449.030	762.640	27.18	30.68	29.6	4	PVC	5.0	7/88			15.00	12.2
MW-9D	496.550	698.070	26.89	29.83	26.80	4	PVC	5.0	7/88			14.00	12.9
MW-11D	354.660	618.330	27.28	30.78	30.40	4	PVC	5.0	7/88			14.00	13.3
MW-13D	560.600	810.570	27.63	31.16	29.70	4	PVC	5.0	7/88			14.00	13.6
MW-15D	703.070	819.060	27.17	30.77	22.00	4	PVC	5.0	7/88			12.00	15.2
MW-19D	806.620	945.860	27.30	29.08	25.00	4	PVC	5.0	1/89			16.00	11.3

Task Gantt

Project: HEXCEL.PJ
03-13-91